

IL-1F10/IL-38 Protein, Mouse (His-SUMO, solution)

Cat. No.:	HY-P71601Y
Synonyms:	Il1f10; Interleukin-1 family member 10; IL-1F10
Species:	Mouse
Source:	E. coli
Accession:	Q8R459 (M1-R152)
Gene ID:	215274
Molecular Weight:	Approximately 33 kDa

PROPERTIES

AA Sequence	<p>M C S L P M A R Y Y I I K D A H Q K A L Y T R N G Q L L L G D P D S D N Y S P E</p> <p>K V C I L P N R G L D R S K V P I F L G M Q G G S C C L A C V K T R E G P L L Q</p> <p>L E D V N I E D L Y K G G E Q T T R F T F F Q R S L G S A F R L E A A A C P G W</p> <p>F L C G P A E P Q Q P V Q L T K E S E P S T H T E F Y F E M S R</p>
Biological Activity	Measured by its ability to inhibit IL-6 secretion by THP-1 human acute monocytic leukemia cells. The ED ₅₀ for this effect is 40.04 ng/mL, corresponding to a specific activity is 2.50×10 ⁴ U/mg.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4, 50% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	IL-1F10/IL-38 Protein, exhibiting immunomodulatory activity, operates by influencing cytokine production. While it does not independently induce cytokine production, it plays a regulatory role in the immune response. Notably, IL-1F10/IL-38 reduces IL22 and IL17A production by T-cells in response to heat-killed <i>Candida albicans</i> , indicating its ability to modulate specific immune pathways. Moreover, it diminishes IL36G-induced production of IL8 by peripheral blood mononuclear cells, highlighting its broader impact on cytokine responses. Conversely, IL-1F10/IL-38 increases IL6 production by dendritic cells stimulated by bacterial lipopolysaccharides (LPS), suggesting its involvement in diverse immune processes. Functioning as
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a ligand for IL-36R/IL1RL2, IL-1F10/IL-38 engages in intricate interactions, and its binding with the cargo receptor TMED10 facilitates translocation from the cytoplasm into the endoplasmic reticulum-Golgi intermediate compartment (ERGIC), leading to subsequent secretion.

Caution: Product has not been fully validated for medical applications. For research use only.

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